



a service of the National Library of Medicine
and the National Institutes of Health

www.pubmed.gov

My NCBI
[Sign In] [Regis]

All Databases

PubMed

Nucleotide

Protein

Genome

Structure

OMIM

PMC

Journals

Book

Search PubMed

for

Go

Clear

Limits

Preview/Index

History

Clipboard

Details

Display AbstractPlus

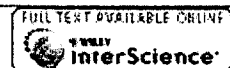
Show 20

Sort by

Send to

All: 1 Review: 0

1: J Cell Physiol. 2007 Jun;211(3):590-7.



Links

The regulation of Foxp3 expression in regulatory CD4(+)CD25(+)T cells: Multiple pathways on the road.

Zhang L, Zhao Y.

Transplantation Biology Research Division, State Key Laboratory of Biomembrane and Membrane Biotechnology, Institute of Zoology, Chinese Academy of Sciences, Beijing, China.

Regulatory T cells (Treg cells) have been well documented to have a crucial physiological role in preventing the development of autoimmune diseases and keeping self-tolerance. Foxp3, a recently identified member of the forkhead transcription factors, serves as a master regulator for the development and function of CD4(+)CD25(+)Treg cells. Though it is well defined that Foxp3 expression is sufficient to program CD4(+)CD25(+)Treg cell development, the physiological factors initiating intracellular Foxp3 expression remain poorly understood so far. In the present manuscript, we try to summarize the recent advances regarding the regulatory roles of T-cell receptor (TCR), co-stimulatory molecules, interleukin-2 (IL-2), transforming growth factor-beta (TGF-beta) and beyond pathways on Foxp3 expression. J. Cell. Physiol. 211: 590-597, 2007. (c) 2007 Wiley-Liss, Inc.

PMID: 17311282 [PubMed - in process]

Related Links

Conversion of peripheral CD4+CD25- naive T cells to CD4+CD25+ regulatory T cells by TGF-beta induction of transcription factor Foxp3. [J Exp Med. 2003]

Crucial role of FOXP3 in the development and function of human CD25+CD4+ regulatory T cells. [J Clin Invest. 2004]

TGF-beta induces Foxp3 + T-regulatory cells from CD4 + CD25 - precursors. [Am J Transplant. 2004]

Foxp3-dependent and -independent molecules specific for CD25+CD4+ natural regulatory T cells revealed by DNA microarray analysis. [J Biol Chem. 2006]

Retroviral Foxp3 gene transfer ameliorates liver granuloma pathology in Schistosoma mansoni infected mice. [Immunology. 2005]

See all Related Articles...

Display AbstractPlus

Show 20

Sort by

Send to

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Mar 30 2007 06:45:50

Exhibit 6